No. 6. — Bibliography to accompany "Selections from Embryological Monographs" compiled by Alexander Agassiz, Walter Faxon, and E. L. MARK.

I.

CRUSTACEA.

BY WALTER FAXON.

[It is proposed to issue in the Memoirs of the Museum a "Selection from Embryological Monographs," which will give to the student, in an easily accessible form, a more or less complete iconography of the embryology of each important group of the animal kingdom. This selection is not intended to be a handbook, but rather an atlas to accompany any general work on the subject.

The plates will be issued in parts, as fast as practicable, each part covering a somewhat limited field. The parts devoted to Echinoderms, Acalephs, and Polyps are well advanced, and a beginning has been made for the Crustacca. Occasional appen-

dices may be published, to prevent the plates from becoming antiquated.

The quarto illustrations will be accompanied by a carefully prepared explanation, and by a bibliography, in octavo, to be made as complete as possible. Although a large part of this bibliographical literature may be found in the general works of Kölliker, Balbiani, and Balfour, and in some of the more recent special monographs, a fuller list on special subjects, comprising the scattered references now accessible only with much cost of time and labor, will be convenient for students.

The present Bulletin contains the first instalment of this bibliography. It will be followed at an early date by similar lists for the Echinoderms, the Acalephs, the

Polyps, and the Fishes.

ALEXANDER AGASSIZ.

THE embryological literature of the Arthropod groups incertæ scdis, viz. Xiphosura, Trilobita, and Pycnogonida, will be found at the end of this list. An asterisk (*) before a title denotes that the work cited has not been seen by me.

December 3, 1881.

W. F.]

Agassiz, Alexander.

[On the Development of the Porcellanidæ.] Proc. Boston Soc. Nat. Hist., X. p. 222. Oct. 18, 1865.

(Zoča of Porcellana (Polyonyx) macrocheles recorded from Newport, R. I.)

Instinct? in Hermit Crabs. Amer. Journ. Sci. & Arts [3], X. pp. 290, 291. Oct. 1875. (Habits of young.)

Agassiz, Louis.

Twelve Lectures on Comparative Embryology, delivered before the Lowell Institute, in Boston, December and January, 1848-49. Boston, 1849. 104 pp.

(Eggs of Pinnotheres, p. 67, Pl. XXII. Development of Palamon, pp. 67, 68, Pl. III. Cumæ the young of Palæmon, Hippolyte, and Mysis, p. 68.)

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Zoölogical Notes from the Correspondence of Prof. Agassiz. *Amer. Journ. Sci. & Arts* [2], XIII. pp. 425, 426, 1852; XXII. pp. 285, 286, 1856.

(Cumæ the young of Crangon, Palæmon, and Hippolyte.)

Allman [George James].

On the Development of Notodelphys, Allm., a new Genus of Entomostraca. Rep. Brit. Assoc. Adv. Sci. for 1847, p. 74. 1848.

Anderson, John.

On the Anatomy of Sacculina, with a Description of the Species. Ann. Mag. Nat. Hist. [3], IX. pp. 12-19, Pl. I. 1862.

(Larva, pp. 13, 14, fig. 1.)

Aurivillius, P. O. Christopher.

On a new Genus and Species of Harpacticida. Bihang till K. Svenska Vetensk.-Akad. Handl., V. No. 18. 1879. 14 pp., 4 pl.

(Balanophilus unisetus. Development, pp. 10-15, Pl. III., IV.)

*Balaenophilus unisetus nov. Gen. et Sp. Ett Bidrag till Kännedomen om Harpacticidernas Utvecklingshistoria och Systematik. Stockholm, 1879. 26 pp., 4 pl. (Akadem. Afhandl.)

Baird, W.

The Natural History of the British Entomostraca. London, 1850. 364 pp., 36 pl.

Previously in Mag. Zoöl. Bot., I. pp. 35-41, 309-333, 514-526, Pl. VIII.-X., XVI., 1837; II. pp. 132-144, 400-412, Pl. V., 1838. Ann. Nat. Hist., I. pp. 245-256, Pl. 1X., 1838. Ann. Mag. Nat. Hist., XI. pp. 81-95, Pl. II., III., 1843.

(Young stages, passim.)

Balbiani [G.].

Observations relatives à une Note récente de M. Gerbe, sur la Constitution et le Développement de l'Œuf ovarien des Sacculines. Comptes Rendus de l'Acad. des Sci., Paris, LXVIII. pp. 615-618. 1869.

Sur la Constitution et le Mode de Formation de l'Œuf des Sacculines. Comptes Rendus de l'Acad. des Sci., Paris, LXIX. pp. 1320-1324. 1869. Ann. Mag. Nat. Hist. [4], V. pp. 303-306. 1870.

Sur la Constitution et le Mode de Formation de l'Œuf des Sacculines. Remarques concernant une Note récente de M. Ed. Van Beneden. Comptes Rendus de l'Acad. des Sci., Paris, LXIX. pp. 1376-1379. 1869.

Balfour, Francis M.

A Treatise on Comparative Embryology. Vol. I. Chapter XVIII. Crustacea. Pp. 380-443. London, 1880.

(General work.)

Bate, C. Spence.

- Notes on Crustacea. Ann. Mag. Nat. Hist. [2], VI. pp. 109–111, Pl. VII. 1850. (On the mode of escape of Pagurus larva from the egg, p. 111.)
- On the Development of the Cirripedia. Ann. Mag. Nat. Hist. [2], VIII. pp. 324-332, Pl. VI.-VIII. 1851.
- On the British Edriophthalmia. Part I. The Amphipoda. Rep. Brit. Assoc. Adv. Sci. for 1855. 1856.

(On the development of the young, pp. 55, 56.)

On the British Diastylidæ. Ann. Mag. Nat. Hist. [2], XVII. pp. 449-465, Pl. XIII.-XV. 1856.

(On the development, p. 463. Zoëa of Hippolyte varians, pp. 461, 462, Pl. XV. fig. 8.)

On the Development of Carcinus Mænus. Proc. Roy. Soc. London, VIII. pp. 544-546. 1857.

(Abstract of paper given in full in Phil. Trans. Roy. Soc. London, CXLVIII.)

- On the Genus Cuma. Ann. Mag. Nat. Hist. [2], X1X. pp. 106, 107. 1857. (On the affinity of Cuma with young Macroura.)
- On Praniza and Anceus, and their Affinity to each other. Ann. Mag. Nat. Hist. [3], II. pp. 165-172, Pl. VI., VII. 1858.
- On the Development of Decapod Crustacea. *Phil. Trans. Roy. Soc. London*, CXLVIII. pp. 589-605, Pl. XL.-XLVI. 1859. (Received May 1, read June 18, 1857.)

 (Development of Carcinus Manas.)
- On the Morphology of some Amphipoda of the Division Hyperina. Ann. Mag. Nat. Hist. [3], VIII. pp. 1–16, Pl. I., II. 1861.

(Young described.)

- [Review of Fritz Müller's Für Darwin.] Rec. Zoölog. Lit. (1864), I. pp. 261–270. 1865.
- [Review of Z. Gerbe's Métamorphoses des Crustacés marins.] Rec. Zoölog-Lit. (1865), II. pp. 321, 322. 1866.
- Report of the Committee appointed to explore the Marine Fauna and Flora of the South Coast of Devon and Cornwall. No. 1. Rep. Brit. Assoc. Adv. Sci. for 1865. 1866.

(Glaucothoë the young of Pagurus, p. 53.)

Also published with title, Carcinological Gleanings, No. II., in *Ann. Mag. Nat. Hist.* [3], XVII. p. 26. 1866.

Carcinological Gleanings. No. III. Ann. Mag. Nat. Hist. [4], I. pp. 442–448, Pl. XXI. 1868.

(Believes Alima to be the second stage of Squilla. Young of Uca, see Cunningham, Robert O.)

Report of the Committee appointed to explore the Marine Fauna and Flora of the South Coast of Devon and Cornwall. No. 2. Rep. Brit. Assoc. Adv. Sci. for 1867. 1868.

(Larvæ of Porcellana, Pagurus, Palinurus, pp. 279-282, Pl. I., II.)

Also published with title, Careinological Gleanings, No. IV., in Ann. Mag. Nat. Hist. [4], II. pp. 113-117, Pl. IX., X. 1868.

Fourth Report on the Fauna of South Devon. Rep. Brit. Assoc. Adv. Sci. for 1872. 1873.

(Observation on the development of Homarus, &c., p. 52.)

Report on the Present State of our Knowledge of the Crustaeea. Parts I. and II. On the Homologies of the Dermal Skeleton. Rep. Brit. Assoc. Adv. Sci. for 1875, pp. 41-53, Pl. I., II. 1876. Do. for 1876, pp. 75-94, Pl. II., III. 1877.

(Remarks on development, passim.)

On the Nauplius Stage of Prawns. Ann. Mag. Nat. Hist. [5], II. pp. 79-85.
1878.

(Thinks Fritz Müller's "Peneus-nauplius" may be a larval Schizopod or parasitic Suctorian. Larva of Galatea noticed, p. 82.)

Report on the Present State of our Knowledge of the Crustaeea. Part IV. On Development. Rep. Brit. Assoc. Adv. Sci. for 1878, pp. 193-209, Pl. V.-VII. 1879.

(Gelasimus, Trapezia, Dromia, Porcellana, Galatea, Astacus, Crangon, Palæmon, &c.)

Report on the Present State of our Knowledge of the Crustaeea. Part V. On Feeundation, Respiration, and the Green Gland. Rep. Brit. Assoc. Adv. Sci. for 1880, pp. 230-241. 1880.

(Account of recent observations of Chantran, Gerbe, Willemoes-Suhm, &c.)

On the *Penæidea*. Ann. Mag. Nat. Hist. [5], VIII. pp. 169-196, Pl. XI., XII. 1881.

(Genus Euphema M. Edw. a young form of Peneus? p. 192.)

Bate (C. Spence) and Müller (Fritz).

The Nauplius Stage of Prawns. Ann. Mag. Nat. Hist. [5], II. pp. 426, 427. 1878.

Bate, C. Spence [and Power, Wilmot Henry].

On the Development of the Crustacean Embryo, and the Variations of Form exhibited in the Larvæ of thirty-eight Genera of Podophthalmia. *Proc. Roy. Soc. London*, XXIV. pp. 375-379. 1876. Ann. Mag. Nat. Hist. [4], XVIII. pp. 174-177. 1876.

Bate (C. Spence) and Westwood (J. O.).

A History of the British Sessile-eyed Crustacea. 2 vols. London, 1861–1868. lvi. + 507 + 536 pp.

(Observations on development, pp. xliii.-xlvi., 1868 (C. S. Bate), et passim.)

Bell, Thomas.

A History of the British Stalk-eyed Crustacea. London, 1853. lxv. + 386 pp. (Metamorphosis, pp. xxxviii.-lxi., et passim.)

Beneden. See Van Beneden.

Bessels, Emil.

Einige Worte über die Entwickelungsgeschichte und den morphologischen Werth des kugelförmigen Organes der Amphipoden. Jenaische Zeitschr., V. pp. 91-101. 1870.

See also Van Beneden, Édouard.

Birge, Edward A.

Notes on Cladocera. Trans. Wisconsin Acad. Sci., Arts, & Letters, IV. pp. 77-112, Pl. I., II. 1878.

(Some notes on young, passim.)

Boas, J. E. V.

Amphion und Polycheles (Willemoesia). Zoolog. Anzeig., II. pp. 256-259. May, 1879.

(Amphion the larva of Polycheles?)

Studier over Decapodernes Slægtskabsforhold. Avec un Résumé en français. K. Danske Vidensk. Selsk. Skr. [6], naturvidensk. og mathemat. Afd. I. pp. 25-210, 7 pl. 1880.

Abstr. in Journ. Roy. Microscop. Soc. [2], I. pp. 450-452. 1881. (Development, passim.)

Bobretzky, N.

K Embriologii Tshlenistonogikh [On the Embryology of Arthropods]. Zapiski Kiefskavo Obshtchestva Yestestvoispitatalyei, III., 1873. [Mem. Kieff Naturalists' Soc., III. pp. 129-263, Pl. I.-VI. 1873.]

Abstr. in German by Hoyer in Hofmann u. Schwalbe's Jahresberichte, II. pp. 31-2318. 1875.

(Astacus and Palæmon.)

Zur Embryologie des Oniscus murarius. Zeitschr. f. wissensch. Zool., XXIV. pp. 179-203, Taf. XXI., XXII. 1874.

Boeck, Axel.

*Om det norske Hummerfiski og dets Historie. *Tidsskrift for Fiskeri*, Kjobenhavn, 3^{die} Aargangs, pp. 28–43, *1868*; pp. 145–189, *1869*.

Translated in United States Commission of Fish and Fisheries, Part III.

Report of the Commissioner for 1873-74 and 1874-75, pp. 223-258. 1876.

(Observations on development of Homarus, pp. 226, 227.)

Bosc, L. A. G.

Histoire Naturelle des Crustacés. Paris, 1802.

(Genus Zoëa founded for reception of the Brachyuran larva described by Slabben under the name of Monoculus taurus.)

Bovallius, Carl.

Embryologiska Studier. I. Om Balanidernas Utveckling. Stockholm, 1875. 44 pp., 5 pl.

Brandt, Eduard.

Ueber die Jungen der gemeinen Klappenassel (Idothea entomon). Bull. Acad. Impér. des Sci. de St.-Pétersbourg, XV. pp. 403-409 (Mélanges Biologiques, V11. pp. 649-657), 1 pl. 1870.

Brauer, Friedrich.

Beiträge zur Kenntniss der Phyllopoden. Sitzungsber. d. kais. Akad. d. Wissensch. Wien. Math.-naturw. Cl., LXV. pp. 279-291. 1872.

Abstr. Anzeiger d. Akad. d. Wissensch. Wien, May 31, 1872, p. 100. Ann. Mag. Nat. Hist. [4], X. p. 152, 1872. *Zeitschr. gesammt. Naturwissen. [2], VI. pp. 314, 315, 1872.

(Parthenogenesis of Apus, &c.)

Vorläufige Mittheilungen über die Entwicklung und Lebensweise des Lepidurus productus Bose. Sitzungsber. d. kais. Akad. d. Wissensch. Wien. Math.-naturw. Cl., LXIX., I. Abt. pp. 130-140, Taf. I., 11. 1874.

Bree, W. T.

Ecdysis, or the Casting of the Skin or Shell, in Crustaceous Animals. Mag. Nat. Hist. (Loudon's), VIII. pp. 468, 469. August, 1835.

(Astacus hatched in the adult form.)

Brightwell, T.

Description of the Young of the Common Lobster, with Observations relative to the Questions of the Occurrence and Non-occurrence of Transformations in Crustaceous Animals. *Mag. Nat. Hist.* (Loudon's), VIII. pp. 482-486. September, 1835.

(Homarus, Astacus.)

Brooks, W. K.

The Larval Stages of Squilla Empusa Say. Chesapeake Zoölogical Laboratory. Scientific Results of the Session of 1878, pp. 143-170, Pl. IX.-XIII. February, 1879.

Also published as Studies from the Biological Laboratory of Johns Hopkins University, I. Part 3.

The Rhythmical Character of the Process of Segmentation. Amer. Journ. Sci. & Arts [3], XX. p. 293. October, 1880.

(Observed in eggs of Lucifer.)

The Young of the Crustacean Lucifer, a Nauplius. Amer. Naturalist, XIV. pp. 806-808. November, 1880.

(Also records obs. of E. B. Wilson that zoëa of *Libinia* has full number of thoracic appendages when it leaves egg. Wilson has also raised zoëæ from eggs of *Porcellana*, *Pinnixa*, *Sesarma*, *Pinnotheres*, and *Callinectes*.)

The Embryology and Metamorphosis of the Sergestidæ. Zoolog. Anzeig., 1II. pp. 563-567, 15 Nov., 1880.

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(Lucifer, Acetes?)

Lucifer: a Study in Morphology. (Abstract.) Proc. Roy. Soc. London, No. 212, 1881. 3 pp.
(Development of Lucifer, Acetes?)

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The First Zoëa of Porcellana. Studies from the Biological Laboratory of Johns Hopkins University, II. No. 1, pp. 58-64, Pl. VI., VII. 1881.

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Ueber Hemioniscus, eine neue Gattung parasitischer Isopoden. Zeitschr. f. wissensch. Zool., XVI. pp. 303-327, Taf. XVI., XVII. 1866.

Beiträge zur Kenntuiss der innerhalb der Ascidien lebenden parasitischen Crustaceen des Mittelmeeres. Zeitschr. f. wissensch. Zool., XIX. pp. 99-155, Taf. V.-XI. 1869.

(Figures nauplii of several Notodelphyidæ.)

See also Münter, Jul.

Bullar, J. F.

Ou the Development of the Parasitic Isopoda. Phil. Trans. Roy. Soc. London, CLXIX. pp. 505-521, Pl. XLV.-XLVII. 1878. Abstr. in Proc. Roy. Soc. London, XXVII. pp. 284-286. April 4, 1878.

(Cymothoë.)

Burmeister, Hermann.

Beiträge zur Naturgeschichte der Rankenfüsser (*Cirripedia*). Berlin, 1834. viii. + 60 pp., 2 pl.

(Development, pp. 12-27, Pl. I.)

Cane. See DuCane.

Carbonnier, Pierre.

L'Écrevisse. Mœurs — Reproduction — Education. Paris, 1869. 197 pp. (Notes on hatching and young, Ch. VI. pp. 49-56.)

Cavolini, Filippo.

*Memoria sulla Generazione dei Pesci e dei Granchi. Napoli, 1787.

Germ. transl. by E. A. W. ZIMMERMANN. Abhandlung über die Erzeugung der Fische und der Krebse. Berlin, 1792. 192 pp., 3 pl.

(Zoëa of Brachyura [Grapsus varius?], young of Entoniscus, Rhizocephala, &c.)

Chantran, Samuel.

Observations sur l'Histoire Naturelle des Écrevisses. Comptes Rendus de l'Acad. des Sci., Paris, LXXI. pp. 43-45. 1870

Trans. in Ann. Mag. Nat. Hist. [4], VI. pp. 265-267. 1870. Journ. de l'Anat. et de la Physiol. (Robin's), VIII. pp. 236-238. 1872. Rev. Mag. Zool. [2], XXIII. pp. 75-78. 1871-72.

Nouvelles Observations sur le Développement des Écrevisses. Comptes Rendus de l'Acad. des Sci., Paris, LXXIII. pp. 220, 221. 1871.

Trans. in Ann. Mag. Nat. Hist. [4], VIII. pp. 219, 220. 1871. Journ. de l'Anat. et de la Physiol. (Robin's), VIII. p. 238. 1872. Rev. Mag. Zool. [2], XXIII. pp. 78, 79. 1871–72.

Claparède, A. René Edouard.

Beobachtungen über Anatomie und Entwicklungsgesehiehte wirbelloser Thiere an der Küste von Normandie angestellt. Leipzig, 1863. viii. + 120 pp., 18 pl.

(Development of *Mysis*, pp. 92-94, Pl. XVII. figs. 1-6; *Lepas anatifera*, pp. 98-101, Pl. XVII. figs. 15-26; *Phoxichilidium*, pp. 104, 105, Pl. XVIII. figs. 13, 14.)

Claus, Carl.

Ueber den Bau und die Entwickelung parasitischer Crustaceen. Cassel, 1858.
34 pp., 2 pl.
(Chondracanthus, Lernanthropus, Kroyeria.)

Zur Anatomie und Entwiekelungsgesehichte der Copepoden. Arch. f. Naturgesch., XXIV. 1, pp. 1-76, Taf. I.-III. 1858.

*Zur Kenntniss der Malaeostraeenlarven. Würzburg, naturwiss. Zeitschr., II. pp. 23-46. 1861.

Ueber die morphologischen Beziehungen der Copepoden zu den verwandten Crustaeeengruppen der Malaeostraken, Phyllopoden, Cirripedien und Ostraeoden. Würzburg. naturwiss. Zeitschr., III. pp. 159-167. 1862.

Ueber den Bau und die Entwicklung von Achtheres percarum. Zeitschr. f. wissensch. Zool., XI. pp. 287-308, Taf. XXIII., XXIV. 1862.

Die frei lebenden Copepoden mit besonderer Berücksichtigung der Fauna Deutschlands, der Nordsee und des Mittelmeeres. Leipzig, 1863. x. + 230 pp., 37 pl.

(Development, pp. 72-83. Figures several nauplii.)

Ueber einige Schizopoden und niedere Malaeostraken Messina's. Zeitschr. f. wissensch. Zool., XIII. pp. 422-454, Taf. XXV.-XXIX. 1863.

(Development of Palinurus, Sergestes, Euphausia.)

Zur näheren Kenntniss der Jugendformen von Cypris ovum. Zeitschr. f. wissensch. Zool., XV. pp. 391–398, Taf. XXVIII., XXIX. 1865.
Abstr. by C. Spence Bate in Rec. Zoöl. Lit. (1865), II. pp. 344, 345. 1866.

Die Copepoden-Fauna von Nizza. Ein Beitrag zur Charakteristik der Formen und deren Abänderungen "im Sinne Darwin's." Schriften d. Gesell. zur Beförderung d. gesammt. Naturwissen. zu Marburg, IX. Suppl. 1. 34 pp., 5 pl. 1866.

(Young Calanella, p. 9, Taf. V. fig. 22. Calanus mastigophorus? pp. 10, 11, Taf. V. figs. 20, 21.)

Ueber Lernaeocera esocina v. Nordm. (Vorläufige Mittheilung.) Sitzungsber. d. Gesell. zur Beförderung d. gesammt. Naturwissen. zu Marburg, 1867, pp. 5-12.

(Development, pp. 11, 12.)

- Ueber den Entwicklungsmodus der *Porcellana*-Larven im Vergleiche zu den Larven von *Pagurus. Sitzungsber. der Gesell. zur Beförderung d. gesammt.* Naturwissen. zu Marburg, 1867, pp. 12-16.
- Ueber die Metamorphose und systematische Stellung der Lernaeen. Sitzungsber. d. Gesell. zur Beförderung d. gesammt. Naturwissen. zu Marburg, 1868, pp. 5-13.
- Beiträge zur Kenntniss der Ostracoden. I. Entwicklungsgeschichte von Cypris. Schriften d. Gesell. zur Beförderung d. gesammt. Naturwissen. zu Marburg, IX. pp. 151-166, 2 pl. 1868.
 - Abstr. in Ann. Mag. Nat. Hist. [4], IV. pp. 291, 292. 1869. *Arch. Sci. Phys., XXXV. pp. 312-314. 1869.
- Beobachtungen über Lernaeocera, Peniculus und Lernaea. Ein Beitrag zur Naturgeschichte der Lernaeen. Schriften d. Gesell. zur Beförderung d. gesammt. Naturwissen. zu Marburg, IX. Suppl. 2. 32 pp., 4 pl. 1868.

(Young of Lernæocera esocina. Metamorphosis of Lernæa branchialis, pp. 16-27, Taf. IV.)

- Die Cypris-ähnliche Larve (Puppe) der Cirripedien und ihre Verwandlung in das festsitzende Thier. Ein Beitrag zur Morphologie der Rankenfüssler.
 Schriften d. Gesell. zur Beforderung d. gesammt. Naturwissen. zu Marburg, IX. Suppl. 5. 17 pp., 2 pl. 1869.
- Die Metamorphose der Squilliden. Nachrichten Kön. Gesell. Wissensch. Göttingen, 1871, pp. 169-180. (Abstract.) Abh. Kön. Gesell. Wissensch. Göttingen, XVI. pp. 111-163, Taf. I.-VIII. 1871. (Full memoir.)
- Zur Kenntniss des Bau's und der Entwicklung von Apus und Branchipus. Nachrichten Kön. Gesell. Wissensch. Göttingen, 1872, pp. 209-225. *Zeitschr. gesammt. Naturwissen., VI. pp. 200, 201. 1872.
- Zur Kenntniss des Baues und der Entwicklung von Branchipus stagnalis und Apus cancriformis. Abh. Kön. Gesell. Wissensch. Göttingen, XVIII. pp. 93-140, Taf. I.-VIII. 1873.
- Ueber die Entwickelung, Organisation und systematische Stellung der Arguliden. Zeitschr. f. wissensch. Zool., XXV., pp. 217-284, Taf. XIV.-XVIII. 1875.
- *Das System der Crustaceen im Lichte der Descendenzlehre. I. Die Metamorphose der Malakostraken. Wien, 1875.
- Zur Kenntniss der Organisation und des feinern Baues der Daphuiden und verwandter Cladoceren. Zeitschr. f. wissensch. Zool., XXVII. pp. 362-402, Taf. XXV.-XXVIII. Aug., 1876.

(Structure of ovary, eggs, &c., pp. 389-399, Taf. XXVII. figs. 15-20.)

Grundzüge der Zoologie. Zum Gebrauche an Universitäten und höheren Lehranstalten sowie zum Selbststudium. 3te Aufl. Marburg und Leipzig, 1874, 1876. xii. + 1254 pp.

(Development of Crustacea, pp. 450-562, passim. 1876.)

Untersuchungen zur Erforschung der Genealogischen Grundlage des Crustaceen-Systems. Ein Beitrag zur Descendenzlehre. Wien, 1876. viii. + 114 pp., 19 pl.

Noticed by Eduard von Martens in Zoölog. Rec. (1876), XIII. Crust.,

pp. 2, 3. 1878.

(General work on development of Crustacea.)

Neue Beiträge zur Kenntniss der Copepoden unter besonderer Berücksichtigung der Triester Fauna. Arbeiten aus d. zoolog. Inst. d. Universität Wien u. d. zoolog. Station in Triest, III. pp. 313-332, Taf. XXIII.-XXV. 1881.

(Young males of certain species resemble the female in the segmentation of the antennæ, &c.)

Coldstream, John.

On the Structure and Habits of the *Limnoria terebrans*, a minute Crustaceous Animal, destructive to marine wooden Erections, as Piers, &c. *Edinburgh New Philosoph. Journ.*, XVI. pp. 316-334, Pl. VI. 1834.

(Young, p. 325, Pl. VI. figs. 17, 18.)

Cornalia (Emilio) and Panceri (Paolo).

Osservazioni zoologico-anatomiche sopra un nuovo Genere di Crostacei Isopodi sedentarii (Gyge branchialis). Memorie della Reale Accad. d. Scienze di Torino, [2], XIX. 1858. 36 pp., 2 pl.

(Development, pp. 21-21, Pl. I. figs. 6-25.)

Costa, Oronzio-Gabriele.

Fauna del Regno di Napoli, &c. Napoli, 1829, et seqq.

(Embryo of Callianassa subterranea, Decapodi Macrouri, Tav. I^{bis}, fig. 2, pp. 9, 10. Feb. 1847.)

A few plates are missing from the copy of this work in the library of the Museum of Comparative Zoölogy. According to Leuckart, Arch. f. Naturgesch., 1859, 1, p. 246, the embryo of Notopterophorus is figured.

Coste [P.].

Note sur la Larve des Langoustes. Comptes Rendus de l'Acad. des Sci., Paris, XLVI. pp. 547, 548. 1858. Ann. Mag. Nat. Hist. [3], I. p. 466. 1858.

(Phyllosoma the larva of Palinurus.)

Études sur les Mœurs et sur la Génération d'un eertain Nombre d'Animaux marins. Comptes Rendus de l'Acad. des Sci., Paris, XLVII. pp. 45-50. 1858.

Trans. in Ann. Mag. Nat. Hist. [3], II. pp. 197-202. 1858.

Couch, R. Q.

On the Metamorphoses of the Decapod Crustaceans. *The Eleventh Annual Report of the Royal Cornwall Polytechnic Society*, 1843, pp. 28-43, Pl. I. Falmouth.

(Carcinus Mænas, Portunus plicatus, Cancer pagurus, Maia verrucosa, Inachus dorynchus, Pisa Gibbsii, Homarus vulgaris, Palinurus vulgaris, Galatea squamifera.

Xantho floridus, X. rivulosus, Pilumnus hirtellus, Polybius Henslowii, Portunus puber, and several others hatched as zoëæ.)

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(Larva referred to Phyllosoma by Gerstaecker, Arch. f. Naturgesch. 1858, 2, p. 455.)

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[Letter to C. Spence Bate,] Carcinological Gleanings, No. III., Ann. Mag. Nat. Hist. [4], I. pp. 442-446. 1868.

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Czerniavsky. See Tscherniawsky.

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(Metamorphoses, pp. 8-28.)

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(Metamorphoses, pp. 102-133.)

De Filippi. See Filippi.

De Geer. See Geer.

De La Valette St. George. See La Valette St. George.

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Edwards. See Milne Edwards.

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(Young of several Decapoda.)

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(Parasitic Copepoda.)

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(Development of $Athelgue,~{\rm pp.~100\text{--}102},~{\rm Pl.~VIII.~figs.~2^{h}\text{--}2^{k}}.)$

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(Few observations on development.)

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Nobis. Ann. Sci. Nat. [4], Zool., XX. pp. 101-132, Pl. I. 1863.

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